

Claims

1. Pyromechanical fastening element for mechanically connecting two structural parts (1a, 1b) in an unremovable and fixed manner, characterised in that the fastening element consists of a metallic shell (2), arranged in the head portion (3) of which there is a pyrotechnic propellant charge (4) that is adjacent to an adapter (5) and arranged on the rear portion of the shell (2) adjacently to the adapter (5) there is a fastening means for a first structural part (1a), and a second structural part (1b) can be slid on between the first structural part (1a) and the adapter (5), with the shell (2) having at its head portion (3) set fracture notches (6) that extend in the longitudinal direction and rip open the shell (2) when the propellant charge (4) is ignited and can be bent around the adapter (5), thereby fixedly connecting the first structural part (1a) to the second structural part (1b).
2. Fastening element according to claim 1, characterised in that the head portion (3) of the shell (2) is formed so that it is conical.
3. Fastening element according to claim 1 or 2, characterised in that the shell (2) is produced using the deep-drawing process.
4. Fastening element according to one of claims 1 to 3, characterised in that the adapter (5) is embedded in the shell (2) with press fit.
5. Fastening element according to one of claims 1 to 4, characterised in that the pyrotechnic propellant

charge (4) can be ignited by means of a punctiform heat source.

6. Fastening element according to claim 5,  
5 characterised in that the heat source is a laser beam of a laser.

7. Fastening element according to one of claims 1  
to 6, characterised in that the fastening means is a  
10 flanged edge (7).

8. Fastening element according to one of claims 1  
to 7, characterised in that adjacently to the second  
structural part (16 sic) a floating disc (8) is slid  
15 onto the adapter (5) as a counter-bearing.